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(54) Title: NUCLEIC ACID ANALYSIS USING SEQUENCE-TARGETED TANDEM HYBRIDIZATION

(57) Abstract

The disclosed invention provides a novel method for analyzing genomic DNA and expressed sequences using auxiliary oligonucleotides, preannealed to the single-stranded target nucleic acid to form a partially duplex target molecule, offers several advantages in the analysis of nucleic acid sequences by hybridization to genosensor arrays or "DNA chips". Also provided is a method for directly analyzing and comparing patterns of gene expression at the level of transcription in different cellular samples.